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TEXTILE ORGANON

Volume 59, No. 7 ☐ July 1988

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Highlights

- Worldwide Man-Made Fiber Survey in Millions of Pounds
- Worldwide Fiber Demand Rises 2% to Reach 80,534 MillionPounds
  ...Demand for man-made fiber up 5% to 36,578 million pounds
  ...Demand for natural fibers down slightly to 43,956 million pounds.

SHIPMENTS:

In the first half of 1988, total man-made fiber shipments were 65.6 million pounds or 2% ahead of the same period in the previous year. Categories showing large gains include olefin yarn ahead 52.7 million pounds or 10%, cellulosic fiber ahead 27.6 million pounds or 9% and polyester staple ahead 14.8 million pounds or 1%. A decline in nylon staple of 38.5 million pounds or 8% lead to a decline in total noncellulosic staple shipments in the period.

In the month of June 1988, total man-made fiber shipments were virtually the same as their total shipments in the previous month and in June 1987. Compared with June 1987 shipments, polyester industrial yarn was ahead 4.4 million pounds, nylon industrial yarn was ahead 2.4 million pounds and acrylic staple was ahead 2.3 million pounds. Polyester staple was behind 13.0 million pounds from the previous June.

Beginning in this month's issue of the Textile Organon, the total man-made fiber shipments in the table are broken out by domestic shipments and exports.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 JUN	1988 MAY	% CHG 5/88-6/88	1987 JUN	% CHG 6/87-6/88	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1987-1988
CELLULOSIC								
YARN	17.5	18.3	*-4.4*	16.9	*+3.6*	105.3	93.7	*+12.4*
RAYON STAPLE	36.2	36.4	*-0.5*	34.4	*+5.2*	215.1	199.1	*+8.0*
TOTAL CELLULOSIC	**53.7**	**54.7**	*-1.8*	**51.3**	*+4.7*	**320.4**	**292.8**	*+9.4*
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.4	30.8	*+5.2*	30.0	*+8.0*	189.8	189.6	*+0.1*
- CARPET	79.3	81.9	*-3.2*	78.5	*+1.0*	479.8	474.2	*+1.2*
- TEXTILE[a]	32.4	31.7	*+2.2*	31.4	*+3.2*	191.5	190.3	*+0.6*
POLYESTER - INDUSTRIAL	31.3	29.4	*+6.5*	26.9	*+16.4*	178.5	166.2	*+7.4*
- TEXTILE[a]	70.5	71.9	*-1.9*	71.7	*-1.7*	414.4	420.6	*-1.5*
OLEFIN	99.2	100.2	*-1.0*	103.2	*-3.9*	600.4	547.7	*+9.6*
TOTAL YARN	**345.1**	**345.9**	*-0.2*	**341.7**	*+1.0*	**2054.4**	**1988.6**	*+3.3*
STAPLE+TOW+FIBERFILL								
NYLON	79.2	77.9	*+1.7*	78.4	*+1.0*	471.2	509.7	*-7.6*
ACRYLIC+MODACRYLIC	47.4	45.6	*+3.9*	45.1	*+5.1*	295.1	302.7	*-2.5*
POLYESTER	195.4	195.5	*-0.1*	208.4	*-6.2*	1194.3	1179.5	*+1.3*
OLEFIN	32.5	31.2	*+4.2*	30.3	*+7.3*	182.9	179.4	*+2.0*
TOTAL STAPLE	**354.5**	**350.2**	*+1.2*	**362.2**	*-2.1*	**2143.5**	**2171.3**	*-1.3*
TOTAL NONCELLULOSIC	**699.6**	**696.1**	*+0.5*	**703.9**	*-0.6*	**4197.9**	**4159.9**	*+0.9*
TOTAL MAN-MADE FIBER	**753.3**	**750.8**	*+0.3*	**755.2**	*-0.3*	**4518.3**	**4452.7**	*+1.5*
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	704.1	710.2	*-0.9*	707.3	*-0.5*	4231.9	4183.5	*+1.2*
EXPORTS[c]	49.2	40.6	*+21.2*	47.9	*+2.7*	286.4	269.2	*+6.4*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

July 1988

Textile Organon

A Monthly Review

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DATAGRAM

TAIWAN, KOREA AND CHINA INCREASE SHARE OF WORLD NONCELLULOSIC FIBER PRODUCTION SINCE 1983

Of the 30,332 million pounds of worldwide noncellulosic fiber production (except olefin) in 1987, the U.S.A. had the largest share at 22%. Of the five leading producing countries shown in the table below, Taiwan, Korea, Rep. of, and China, PRC, increased their shares since 1983 while the U.S.A. share declined.

FIVE LEADING NONCELLULOSIC FIBER PRODUCING COUNTRIES - 1987

	Production, Million Pounds		Share of World Total	
Country	1983	1987	1983	1987
U.S.A.	6,633	6,822	27%	22%
Taiwan	1,827	3,067	7%	10%
Japan	2,906	2,956	12%	10%
Korea, Rep. of	1,464	2,137	6%	7%
China, PRC	851	2,008	3%	7%

U.S.S.R., CHINA AND INDIA INCREASE SHARE OF WORLDWIDE CELLULOSIC FIBER PRODUCTION

Worldwide cellulosic fiber production totaled 6,246 million pounds in 1987. Of the five leading producing countries shown below, U.S.S.R., China, PRC, and India increased their shares since 1983.

FIVE LEADING CELLULOSIC FIBER PRODUCING COUNTRIES -1987

	Production, Million Pounds		Share of World Total	
Country	1983	1987	1983	1987
U.S.S.R.	1,323	1,304	20%	21%
Japan	855	662	13%	11%
U.S.A.	640	605	10%	10%
China, PRC	288	463	4%	7%
India	256	321	4%	5%

CHINA AND OTHER ASIA COUNTRIES INCREASE SHARE OF WORLDWIDE NONCELLULOSIC FIBER CAPACITY

The December, 1989 capacity survey data indicate total worldwide noncellulosic capacity of 39,795 million pounds. Large capacity increases by China, PRC, and Other Asia countries will increase their shares of the world total as indicated in the table below.

NONCELLULOSIC FIBER PRODUCING CAPACITY
(PERCENT SHARE)

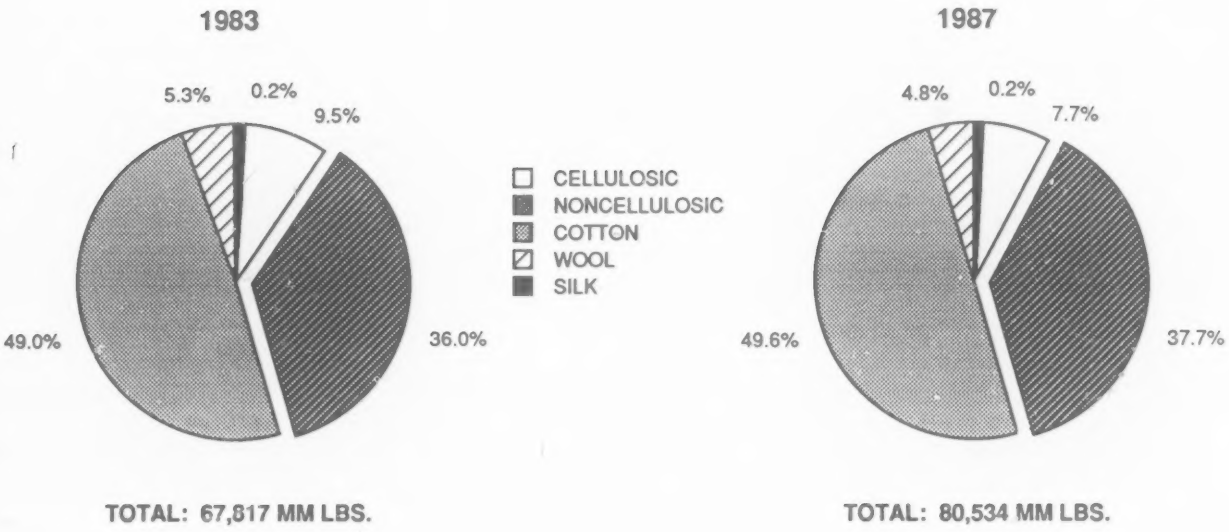
	3/1988	12/1989
Western Europe	19%	18%
Eastern Europe	13%	12%
U.S.A.	20%	20%
Other Americas	8%	7%
Japan	11%	10%
China, PRC	6%	7%
Other Asia	21%	24%
Middle East, Africa & Oceania	2%	2%
World Total	100%	100%

THE NUMBER OF MAN-MADE FIBER PRODUCING PLANTS IN CHINA AND U.S.S.R. REPORTED

The number of man-made fiber producing plants in China, PRC, and the U.S.S.R. was reported for the first time in the *TEXTILE ORGANON* in the June, 1988 issue on page 113. The data are repeated below.

	Cellulosic	Acrylic	Nylon	Polyester	Other	Glass Fiber
China, PRC	9	9	12	20	8	3
U.S.S.R.	19	3	12	4	1	11

GRAPH 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
PERCENT SHARE



TOTAL: 67,817 MM LBS.

TOTAL: 80,534 MM LBS.

TABLE 2:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
MILLION POUNDS

TYPE OF FIBER	1983	1984	1985	1986	1987	% CHANGE 1987 / 1986
CELLULOSIC FIBERS						
YARN+MONOFILAMENTS	2073	2065	2033	2066	2040	*-1.3*
STAPLE+TOW	4385	4554	4423	4194	4206	*+0.3*
TOTAL CELLULOSIC	6458	6619	6456	6260	6246	*-0.2*
NONCELLULOSIC FIBERS						
YARN+MONOFILAMENTS	10730	11520	12298	12683	13437	*+5.9*
STAPLE+TOW	13689	14607	15257	15964	16895	*+5.8*
TOTAL NONCELLULOSIC	24419	26127	27555	28647	30332	*+5.9*
TOTAL MAN-MADE [a]	30877	32746	34011	34907	36578	*+4.8*
% of World Total	*46%*	*47%*	*46%*	*44%*	*45%*	
NATURAL FIBERS						
RAW COTTON [b]	33206	33669	36676	40234	39952	*-0.7*
RAW WOOL [c]	3613	3697	3699	3774	3865	*+2.4*
RAW SILK [d]	121	123	130	139	139	*0*
TOTAL NATURAL	36940	37489	40505	44147	43956	*-0.4*
% of World Total	*54%*	*53%*	*54%*	*56%*	*55%*	
WORLD TOTAL	67817	70235	74516	79054	80534	*+1.9*
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

The silk and man-made fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Man-made fiber data are from tables 3 and 4. Glass fiber, ok-fin and acetate cigarette tow production are not included.

b. **International Cotton Advisory Committee, COTTON: Review of the World Situation**, May-June 1988. New series based on cotton consumption data.

c. **Commonwealth Secretariat** data, on a clean wool basis. See also the December 1987 *Textile Organon*, page 277.

d. **International Silk Association**; Food and Agriculture Organization of the United Nations.

ADDITIONS AND CORRECTIONS

The following are additions and corrections in the **Worldwide Directory of Man-Made Fiber Producers** which appeared in our June 1988 ***Textile Organon***.

On page 115,
ARGENTINA

SOCIEDAD NUEVAS INDUSTRIAS ARGENTINAS FIBRAS ARTIFICIALES S.A.I.C.F.I. (SNIAFA)
DELETE:
Rayon — Platanos (reg yarn & staple)

On page 130,
MALAYSIA

PLEASE ADD THE FOLLOWING COMPANIES:

ALIFFIL SYNTHETIC FIBRE SDN. BHD.
Polyester — Penang (yarn)

ALLIED MALAYAN TEXTILE BHD.
Rayon — Penang *Teteron* (yarn)

ARAB-MALAYSIAN DEVELOPMENT BHD.
Rayon — Perak *Teteron* (yarn)

CHEMPAKA NEGRI LAKSHMI TEXTILES SDN. BHD.
Polyester — Negeri Sembilan (yarn)
Rayon — Negeri Sembilan *Teteron* (yarn)

HING YIAP FIBREMAKERS
Polyester — Johor (yarn)

KWALITY TEXTILES (M) SDN. BHD.
Polyester — Kedah *Teteron* (yarn)
Rayon — Kedah *Teteron* (yarn)

MWE SPINNING MILLS SDN. BHD.
Polyester — Penang *Teteron* (yarn)
Rayon — Penang *Teteron* (yarn)

QUALINIT SDN. BHD.
Polyester — Penang (yarn)

SOUTH ASIA FIBRE INDUSTRIES SDN. BHD.
Polyester — Perak (yarn)

TEXFIBRE (SELANGOR) SDN. BHD.
Polyester — Kuala Lumpur (yarn)

VERTEX FIBRE SDN. BHD.
Nylon — Perak (yarn)

On page 132,
PHILIPPINES, REPUBLIC OF THE

HILON MANUFACTURING CORPORATION
Nylon 6 — DELETE: (idle)

CHANGE THE FOLLOWING COMPANY NAME:

FROM: TEXFIBER CORPORATION
Nylon 6 — Taytay, Rizal *Texfiber* (yarn)
TO: FIBERTEX CORPORATION

UNITED KINGDOM

On page 137,
DU PONT (U.K.) LTD.
ADD:
Aramid — Maydown *Kevlar* (yarn)

UNITED STATES OF AMERICA

On page 138,
COURTAULDS NORTH AMERICA INC.
DELETE:
Nylon 6 — Le Moyne, Mobile County, AL *Courtaulds, Shareen* (yarn & monofil)

ADD:
GULF FIBERS INC.
Nylon 6 — Le Moyne, Mobile County, AL (monofil)

On page 139,
HOECHST CELANESE CORPORATION
ADD:
Vinyon — Rock Hill (staple)

TABLE 3:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	39.7	39.7	0	39.9	39.9	0	39.9	39.9
BENELUX[a]	149.9	47.6	197.5	167.8	53.1	220.9	177.5	66.4	243.9
FINLAND	1.1	0	1.1	1.1	0	1.1	1.1	0	1.1
FRANCE	139.3	284.4	423.7	132.7	289.9	422.6	133.8	269.0	402.8
GERMANY, FED. REP.	747.8	866.4	1614.2	776.0	835.5	1611.5	793.7	886.2	1679.9
GREECE	19.8	22.0	41.8	19.8	22.0	41.8	19.8	22.0	41.8
IRELAND	24.3	75.0	99.3	25.4	85.3	110.7	25.4	99.9	125.3
ITALY/MALTA	314.2	696.9	1011.1	339.5	824.1	1163.6	378.3	864.2	1242.5
PORTUGAL	2.2	92.6	94.8	2.2	99.2	101.4	2.2	112.4	114.6
SPAIN	164.5	381.8	546.3	171.1	403.0	574.1	187.4	418.7	606.1
SWITZERLAND	132.7	61.7	194.4	158.1	61.3	219.4	161.2	58.6	219.8
TURKEY	81.6	226.0	307.6	106.9	248.5	355.4	114.6	295.4	410.0
UNITED KINGDOM	156.1	337.3	493.4	176.4	352.7	529.1	186.7	348.3	535.0
TOTAL WESTERN EUROPE	1933.5	3131.4	5064.9	2077.0	3314.5	5391.5	2181.7	3481.0	5662.7
EASTERN EUROPE									
ALBANIA	0	0	0	0	0	0	0.9	0	0.9
BULGARIA	56.4	81.6	138.0	54.9	94.4	149.3	61.7	94.4	156.1
CZECHOSLOVAKIA	142.2	76.9	219.1	154.1	81.8	235.9	167.5	85.5	253.0
GERMANY, DEM .REP.	143.3	168.0	311.3	143.3	173.9	317.2	143.3	178.1	321.4
HUNGARY	18.1	27.3	45.4	19.0	27.8	46.8	19.8	28.0	47.8
POLAND	174.4	137.1	311.5	183.6	134.5	318.1	190.5	137.8	328.3
ROMANIA	101.4	235.9	337.3	125.7	258.8	384.5	127.9	306.0	433.9
USSR	760.6	610.7	1371.3	821.9	629.4	1451.3	857.1	714.3	1571.4
YUGOSLAVIA	62.8	99.2	162.0	73.9	134.3	208.2	78.3	131.2	209.5
TOTAL EASTERN EUROPE	1459.2	1436.7	2895.9	1576.4	1534.9	3111.3	1647.0	1675.3	3322.3
TOTAL EUROPE	3392.7	4568.1	7960.8	3653.4	4849.4	8502.8	3828.7	5156.3	8985.0

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	33.1	33.1	0	31.1	31.1	*0*	*48.5*	*48.5*	*0*	*48.5*	*48.5*
160.9	75.8	236.7	163.1	72.8	235.9	*219.4*	*152.1*	*371.5*	*219.4*	*152.1*	*371.5*
0.4	0	0.4	1.1	0	1.1	*1.3*	*0*	*1.3*	*1.3*	*0*	*1.3*
134.9	233.7	368.6	114.6	235.9	350.5	*189.6*	*293.2*	*482.8*	*189.6*	*293.2*	*482.8*
765.0	870.8	1635.8	783.3	901.0	1684.3	*921.5*	*954.6*	*1876.1*	*921.5*	*954.6*	*1876.1*
21.2	22.0	43.2	17.6	22.0	39.6	*39.0*	*26.5*	*65.5*	*39.0*	*26.5*	*65.5*
28.7	134.5	163.2	26.5	138.9	165.4	*30.9*	*146.6*	*177.5*	*30.9*	*146.6*	*177.5*
385.8	875.2	1261.0	377.0	866.4	1243.4	*429.2*	*937.0*	*1366.2*	*429.2*	*937.0*	*1366.2*
0	121.3	121.3	0	133.4	133.4	*0*	*143.3*	*143.3*	*0*	*143.3*	*143.3*
187.2	410.1	597.3	174.6	405.2	579.8	*266.8*	*498.7*	*765.5*	*266.8*	*498.7*	*765.5*
147.9	57.3	205.2	149.5	48.7	198.2	*187.4*	*72.8*	*260.2*	*187.4*	*72.8*	*260.2*
132.3	372.6	504.9	160.9	412.3	573.2	*246.9*	*476.2*	*723.1*	*330.7*	*476.2*	*806.9*
172.4	286.6	459.0	179.5	268.1	447.6	*235.9*	*394.6*	*630.5*	*235.9*	*350.5*	*586.4*
2136.7	3493.0	5629.7	2147.7	3535.8	5683.5	*2767.9*	*4144.1*	*6912.0*	*2851.7*	*4100.0*	*6951.7*
0.9	0	0.9	1.1	0	1.1	*4.4*	*11.0*	*15.4*	*4.4*	*11.0*	*15.4*
83.8	94.6	178.4	86.2	96.3	182.5	*132.3*	*205.0*	*337.3*	*132.3*	*238.1*	*370.4*
172.0	111.3	283.3	175.5	115.3	290.8	*210.5*	*191.8*	*402.3*	*210.5*	*191.8*	*402.3*
169.8	180.3	350.1	171.7	182.3	354.0	*198.4*	*198.4*	*396.8*	*213.8*	*253.5*	*467.3*
17.0	29.5	46.5	15.0	37.3	52.3	*26.5*	*50.7*	*77.2*	*26.5*	*70.5*	*97.0*
188.7	137.3	326.0	191.8	141.3	333.1	*242.9*	*185.2*	*428.1*	*242.9*	*185.2*	*428.1*
129.6	310.6	440.2	131.2	313.9	445.1	*149.9*	*383.6*	*533.5*	*149.9*	*394.6*	*544.6*
892.4	778.2	1670.6	959.0	884.0	1843.0	*1049.4*	*1040.6*	*2090.0*	*1111.1*	*1075.8*	*2186.9*
87.5	127.0	214.5	97.0	140.9	237.9	*158.7*	*246.9*	*405.6*	*158.7*	*246.9*	*405.6*
1741.7	1768.8	3510.5	1828.5	1911.3	3739.8	*2173.0*	*2513.2*	*4686.2*	*2250.1*	*2667.4*	*4917.5*
3878.4	5261.8	9140.2	3976.2	5447.1	9423.3	*4940.9*	*6657.3*	*11598.2*	*5101.8*	*6767.4*	*11869.2*

TABLE 3:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN *(CONTINUED)*

MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	2851.7	3781.0	6632.7	2777.3	3697.4	6474.7	2835.7	3478.6	6314.3
OTHER AMERICAS									
ARGENTINA	53.4	35.3	88.7	60.2	47.5	107.4	59.7	37.0	96.7
BOLIVIA	4.4	0	4.4	0	0	0	0	0	0
BRAZIL	233.0	175.5	408.5	260.6	215.2	475.8	268.3	211.2	479.5
CANADA	150.6	121.3	271.9	153.4	130.1	283.5	165.6	127.9	293.5
CHILE	5.7	2.2	7.9	6.2	2.4	8.6	9.0	4.4	13.4
COLOMBIA	69.0	19.6	88.6	85.1	23.6	108.7	84.4	21.8	106.2
COSTA RICA	7.7	0	7.7	7.7	0	7.7	7.7	0	7.7
ECUADOR	10.1	0	10.1	10.6	0	10.6	10.8	0	10.8
MEXICO	278.4	315.7	594.1	325.0	336.9	661.9	342.8	331.6	674.4
PERU	27.6	68.3	95.9	28.7	75.2	103.9	24.9	72.8	97.7
URUGUAY	3.5	8.2	11.7	3.5	7.5	11.0	4.0	8.8	12.8
VENEZUELA	21.4	8.8	30.2	22.5	12.1	34.6	27.6	13.2	40.8
TOTAL OTHER AMERICAS	864.8	754.9	1619.7	963.5	850.2	1813.7	1004.8	828.7	1833.5
JAPAN	1316.8	1589.3	2906.1	1397.7	1621.0	3018.7	1422.8	1669.5	3092.3
CHINA, PRC	152.1	699.3	851.4	218.5	1014.8	1233.3	297.4	1316.4	1613.8
OTHER ASIA									
BANGLADESH	0.4	0	0.4	0.7	0	0.7	1.1	0	1.1
INDIA	192.2	89.9	282.1	234.3	123.5	357.8	281.1	145.9	427.0
INDONESIA	146.4	136.2	282.6	157.6	161.6	319.2	169.5	155.0	324.5
KOREA, REP. OF	741.8	722.2	1464.0	814.8	830.9	1645.7	901.0	888.2	1789.2
MALAYSIA	0	77.2	77.2	0	78.3	78.3	0	85.5	85.5
PAKISTAN	17.9	41.0	58.9	28.2	47.8	76.0	44.1	50.7	94.8
PHILIPPINES	54.0	28.2	82.2	45.2	28.7	73.9	48.5	26.9	75.4
SRI LANKA	2.2	0	2.2	2.2	0	2.2	2.6	0	2.6
TAIWAN	714.5	912.7	1627.2	924.4	997.6	1922.0	1123.2	1133.4	2256.6
THAILAND	88.2	110.2	198.4	87.5	115.5	203.0	93.9	121.3	215.2
TOTAL OTHER ASIA	1957.6	2117.6	4075.2	2294.9	2383.9	4678.8	2665.0	2606.9	5271.9
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA/N.Z.	32.0	2.2	34.2	28.7	2.2	30.9	32.2	2.2	34.4
EGYPT	7.7	45.4	53.1	12.1	56.4	68.5	12.3	60.8	73.1
IRAN	33.1	59.5	92.6	29.8	44.1	73.9	29.8	55.1	84.9
ISRAEL	19.2	15.4	34.6	20.9	15.4	36.3	30.2	16.1	46.3
KENYA	8.4	0	8.4	9.9	0	9.9	11.2	0	11.2
NIGERIA	5.5	5.5	11.0	6.6	6.6	13.2	7.1	6.6	13.7
SOUTH AFRICA	83.8	50.7	134.5	102.5	65.5	168.0	116.4	60.4	176.8
TANZANIA	4.4	0	4.4	4.4	0	4.4	4.4	0	4.4
TOTAL M.E., A. & O.	194.1	178.7	372.8	214.9	190.2	405.1	243.6	201.2	444.8
TOTAL WORLD	10729.8	13688.9	24418.7	11520.2	14606.9	26127.1	12298.0	15257.6	27555.6

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1988		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
2778.2	3656.2	6434.7	2875.9	3945.7	6821.6	3198.0	4313.0	7511.0	3356.0	4426.0	7782.0
67.7	53.8	121.5	62.6	64.8	127.4	124.1	83.8	207.9	139.6	83.8	223.4
0	0	0	0	0	0	11.0	0	11.0	11.0	0	11.0
303.1	225.3	528.4	300.3	246.5	546.8	384.5	293.7	678.2	393.3	293.7	687.0
166.0	141.8	307.8	157.6	128.3	285.9	264.5	169.8	435.2	265.4	169.8	435.2
8.8	5.1	13.9	9.7	6.0	15.7	23.6	17.6	41.2	23.6	17.6	41.2
85.3	20.3	105.6	88.0	20.9	108.9	121.7	28.7	150.4	121.7	28.7	150.4
9.3	0	9.3	9.0	0	9.0	17.6	0	17.6	17.6	0	17.6
12.8	0	12.8	13.2	0	13.2	17.6	15.4	33.0	17.6	15.4	33.0
297.0	356.3	653.3	326.7	414.0	740.7	479.9	522.5	1002.4	499.8	588.6	1088.4
25.1	73.9	99.0	26.2	74.7	100.9	44.1	83.8	127.9	44.1	83.8	127.9
4.0	7.1	11.1	4.4	7.5	11.9	11.0	12.1	23.1	11.0	12.1	23.1
29.5	14.3	43.8	37.0	14.8	51.8	50.7	25.4	76.1	50.7	25.4	76.1
1008.6	897.9	1906.5	1034.7	977.5	2012.2	1551.2	1252.8	2804.0	1595.4	1318.9	2914.3
1334.2	1654.3	2988.5	1342.2	1613.3	2955.5	1816.6	2086.7	3903.3	1816.6	2086.7	3903.3
457.2	1308.7	1765.9	593.0	1413.1	2006.1	674.6	1675.5	2350.1	798.1	1973.1	2771.2
1.1	0	1.1	1.1	0	1.1	2.2	39.7	41.9	2.2	39.7	41.9
310.4	182.1	492.5	312.2	199.1	511.3	428.8	452.2	881.0	516.5	822.1	1338.6
183.2	175.5	358.7	191.8	187.2	379.0	330.7	324.1	654.8	458.6	372.6	831.2
961.9	938.9	1900.8	1055.3	1081.6	2136.9	1167.1	1137.6	2304.7	1264.1	1155.2	2419.3
0	83.6	83.6	0	85.8	85.8	0	92.6	92.6	0	92.6	92.6
56.9	53.8	110.7	61.3	56.0	117.3	75.0	83.8	158.8	99.2	132.3	231.5
44.1	27.3	71.4	47.4	28.0	75.4	86.0	41.9	127.9	86.0	41.9	127.9
2.9	0	2.9	3.3	0	3.3	6.6	0	6.6	6.6	0	6.6
1335.1	1381.2	2716.3	1576.5	1490.8	3067.3	1797.4	1577.0	3374.4	2385.4	1784.2	4169.6
88.2	125.7	213.9	113.1	148.1	261.2	163.6	169.8	333.4	192.2	202.8	395.0
2983.8	2968.1	5951.9	3362.0	3276.6	6638.6	4057.4	3918.7	7976.1	5010.8	4643.4	9654.2
35.9	2.2	38.1	39.9	2.4	42.3	56.2	3.3	59.5	56.2	3.3	59.5
13.9	67.5	81.4	15.2	70.8	86.0	32.2	125.7	157.9	32.2	211.6	243.8
20.9	57.3	78.2	20.9	57.1	78.0	87.1	110.2	197.3	87.1	110.2	197.3
23.1	16.1	39.2	25.4	16.3	41.7	48.5	24.3	72.8	48.5	24.3	72.8
11.2	2.2	13.4	11.0	2.4	13.4	37.5	11.9	49.4	37.5	11.9	49.4
7.7	6.8	14.5	8.8	6.8	15.6	17.6	11.0	28.6	17.6	11.0	28.6
123.9	65.0	188.9	125.2	65.9	191.1	143.3	88.2	231.5	149.9	88.2	238.1
5.5	0	5.5	6.6	0	6.6	11.0	0	11.0	11.0	0	11.0
242.1	217.1	459.2	253.0	221.7	474.7	433.4	374.6	808.0	440.0	460.5	900.5
12682.5	15964.4	28646.9	13437.0	16895.0	30332.0	16672.1	20278.6	36950.7	18118.7	21676.0	39794.7

TABLE 4:
WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE [a]									
AUSTRIA	25.1	241.8	266.9	32.6	240.3	272.9	32.8	240.3	273.1
BELGIUM/NETHERLANDS	90.6	13.4	104.0	90.6	0	90.6	92.6	0	92.6
FINLAND	0	127.0	127.0	0	127.9	127.9	0	132.3	132.3
FRANCE	18.5	65.0	83.5	16.5	41.9	58.4	15.4	33.1	48.5
GERMANY, FED. REP.	130.1	121.3	251.4	134.5	121.3	255.8	141.1	121.3	262.4
GREECE	13.9	0	13.9	13.2	0	13.2	15.4	0	15.4
ITALY	64.6	0	64.6	67.5	0	67.5	66.6	0	66.6
PORTUGAL	2.0	0	2.0	2.2	0	2.2	2.2	0	2.2
SPAIN	23.1	47.4	70.5	15.9	57.5	73.4	16.5	66.1	82.6
SWEDEN	0	86.6	86.6	0	88.4	88.4	0	72.8	72.8
TURKEY	0.7	8.8	9.5	0.7	9.9	10.6	2.2	15.4	17.6
UNITED KINGDOM	55.1	254.0	309.1	46.3	234.1	280.4	41.9	132.7	174.6
TOTAL WESTERN EUROPE	**423.7**	**965.3**	**1389.0**	**420.0**	**921.3**	**1341.3**	**426.7**	**814.0**	**1240.7**
EASTERN EUROPE									
BULGARIA	9.0	77.2	86.2	9.0	81.8	90.8	9.0	82.9	91.9
CZECHOSLOVAKIA	44.3	83.6	127.9	45.2	85.1	130.3	46.1	87.3	133.4
GERMANY, DEM. REP.	77.2	286.8	364.0	77.6	297.6	375.2	78.0	291.9	369.9
HUNGARY	0	14.1	14.1	0	15.4	15.4	0	12.1	12.1
POLAND	40.1	112.9	153.0	43.0	123.5	166.5	45.2	111.6	156.8
ROMANIA	18.7	112.4	131.1	18.7	112.4	131.1	19.4	116.8	136.2
USSR	562.0	760.6	1322.6	566.6	760.6	1327.2	542.3	749.6	1291.9
YUGOSLAVIA	30.9	127.9	158.8	30.9	121.3	152.2	32.8	121.3	154.1
TOTAL EASTERN EUROPE	**782.2**	**1575.5**	**2357.7**	**791.0**	**1597.7**	**2388.7**	**772.8**	**1573.5**	**2346.3**
TOTAL EUROPE	**1205.9**	**2540.8**	**3746.7**	**1211.0**	**2519.0**	**3730.0**	**1199.5**	**2387.5**	**3587.0**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Starting in 1986 country detail is no longer available due to disclosure.
These totals do not include data for the Indonesian pilot plant nor production of cellulosic fiber in North Korea.
Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 166 - 167.
Also note page 172 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
		271.2			264.6			*287.7*			*287.7*
		88.2			88.2			*97.4*			*97.4*
		121.3			119.0			*154.3*			*154.3*
		46.3			50.7			*50.7*			*50.7*
DETAIL NO LONGER AVAILABLE		262.3	DETAIL NO LONGER AVAILABLE		260.1	DETAIL NO LONGER AVAILABLE		*288.8*	DETAIL NO LONGER AVAILABLE		*288.8*
		17.0			17.2			*17.6*			*17.6*
		66.1			64.4			*94.8*			*94.8*
		2.0			2.6			*4.4*			*4.4*
		81.6			79.4			*92.8*			*97.2*
		48.7			50.7			*103.6*			*103.6*
		17.6			17.6			*22.9*			*22.9*
		127.9			121.3			*166.4*			*166.4*
420.1	**729.9**	**1150.2**	**410.5**	**725.3**	**1135.8**	***493.7***	***887.7***	***1381.4***	***493.7***	***092.1***	***1385.8***
9.3	83.8	93.1	9.5	84.7	94.2	*11.0*	*92.6*	*103.6*	*11.0*	*92.6*	*103.6*
46.5	89.3	135.8	47.2	90.4	137.6	*59.5*	*134.5*	*194.0*	*59.5*	*134.5*	*194.0*
78.5	203.0	281.5	79.1	204.1	283.2	*86.0*	*352.7*	*438.7*	*86.0*	*352.7*	*438.7*
0	12.1	12.1	0	12.3	12.3	*0*	*22.0*	*22.0*	*22.0*	*22.0*	*44.0*
42.1	116.6	158.7	41.9	118.6	160.5	*70.5*	*157.6*	*228.1*	*70.5*	*157.6*	*228.1*
19.8	121.3	141.1	19.8	125.7	145.5	*24.3*	*209.4*	*233.7*	*24.3*	*209.4*	*233.7*
542.3	756.2	1298.5	543.4	760.6	1304.0	*639.3*	*778.2*	*1417.5*	*639.3*	*778.2*	*1417.5*
33.3	123.5	156.8	29.3	110.2	139.5	*37.5*	*132.3*	*169.8*	*37.5*	*132.3*	*169.8*
771.8	**1505.8**	**2277.6**	**770.2**	**1506.6**	**2276.8**	***928.1***	***1879.3***	***2807.4***	***950.1***	***1879.3***	***2829.4***
1191.9	**2235.7**	**3427.8**	**1180.7**	**2231.9**	**3412.6**	***1421.8***	***2767.0***	***4188.8***	***1443.8***	***2771.4***	***4215.2***

TABLE 4:
WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(CONTINUED)*

MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**263.8**	**376.1**	**639.9**	**239.1**	**389.6**	**628.7**	**204.6**	**353.2**	**557.8**
OTHER AMERICAS									
ARGENTINA	3.7	0	3.7	4.0	3.3	7.3	3.3	3.3	6.6
BRAZIL	40.6	48.5	89.1	39.0	63.9	102.9	44.3	58.4	102.7
CANADA	22.0	66.1	88.1	22.0	74.7	96.7	17.6	59.3	76.9
CHILE	2.2	7.1	9.3	2.6	8.2	10.8	2.9	8.4	11.3
COLOMBIA	4.0	0	4.0	4.0	0	4.0	4.0	0	4.0
CUBA	4.4	7.7	12.1	4.4	7.7	12.1	4.6	14.1	18.7
MEXICO	23.8	11.0	34.8	25.6	8.8	34.4	27.8	0	27.8
PERU	2.2	0	2.2	3.7	0	3.7	3.7	0	3.7
URUGUAY	2.2	0	2.2	2.2	0	2.2	2.2	0	2.2
VENEZUELA	3.3	0	3.3	4.2	0	4.2	4.6	0	4.6
TOTAL OTHER AMERICAS	**108.4**	**140.4**	**248.8**	**111.7**	**166.6**	**278.3**	**115.0**	**143.5**	**258.5**
JAPAN	**257.5**	**597.4**	**854.9**	**244.3**	**587.7**	**832.0**	**230.6**	**624.6**	**855.2**
CHINA, PRC	**67.0**	**220.5**	**287.5**	**99.2**	**238.1**	**337.3**	**110.2**	**286.6**	**396.8**
OTHER ASIA									
BANGLADESH	5.5	2.2	7.7	5.5	2.2	7.7	4.9	2.2	7.1
INDIA	101.9	154.1	256.0	91.9	220.7	312.6	103.4	209.4	312.8
INDONESIA	0	75.2	75.2	0	91.0	91.0	0	88.2	88.2
KOREA, REP. OF	28.4	0	28.4	28.2	0	28.2	30.4	0	30.4
PAKISTAN	6.0	0	6.0	6.8	0	6.8	7.1	0	7.1
TAIWAN	6.6	217.2	223.8	5.5	276.7	282.2	5.3	263.4	268.7
THAILAND	0	38.6	38.6	0	39.7	39.7	0	41.9	41.9
TOTAL OTHER ASIA	**148.4**	**487.3**	**635.7**	**137.9**	**630.3**	**768.2**	**151.1**	**605.1**	**756.2**
MIDDLE EAST, AFRICA & OCEANiA									
EGYPT	15.4	10.1	25.5	15.4	10.1	25.5	15.4	10.4	25.8
IRAQ	6.6	12.1	18.7	6.6	12.1	18.7	6.6	12.1	18.7
TOTAL M.E., A & O	**22.0**	**22.2**	**44.2**	**22.0**	**22.2**	**44.2**	**22.0**	**22.5**	**44.5**
TOTAL WORLD	**2073.0**	**4384.7**	**6457.7**	**2065.2**	**4553.5**	**6618.7**	**2033.0**	**4423.0**	**6456.0**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
214.8	**404.2**	**619.0**	**191.1**	**414.3**	**605.4**	***244.0***	***469.0***	***713.0***	***244.0***	***469.0***	***713.0***
7.9	7.9	15.8	6.6	7.3	13.9	*23.8*	*11.0*	*34.8*	*23.8*	*11.0*	*34.8*
37.0	74.1	111.1	33.1	74.7	107.8	*46.5*	*91.9*	*138.4*	*46.5*	*91.9*	*138.4*
19.4	64.2	83.6	18.7	62.8	81.5	*32.0*	*83.8*	*115.8*	*32.0*	*83.8*	*115.8*
2.9	8.6	11.5	2.9	8.8	11.7	*3.3*	*11.9*	*15.2*	*3.3*	*11.9*	*15.2*
4.0	0	4.0	4.2	0	4.2	*7.7*	*0*	*7.7*	*7.7*	*0*	*7.7*
5.7	19.2	24.9	6.0	19.4	25.4	*6.6*	*19.8*	*26.4*	*6.6*	*19.8*	*26.4*
26.5	0	26.5	27.1	0	27.1	*34.8*	*0*	*34.8*	*34.8*	*0*	*34.8*
3.7	0	3.7	3.7	0	3.7	*3.7*	*0*	*3.7*	*3.7*	*0*	*3.7*
2.9	0	2.9	2.6	0	2.6	*4.2*	*0*	*4.2*	*4.2*	*0*	*4.2*
4.9	0	4.9	4.9	0	4.9	*5.3*	*0*	*5.3*	*5.3*	*0*	*5.3*
114.9	**174.0**	**288.9**	**109.8**	**173.0**	**282.8**	***167.9***	***218.4***	***386.3***	***167.9***	***218.4***	***386.3***
226.6	**478.8**	**705.4**	**219.1**	**443.3**	**662.4**	***298.7***	***547.8***	***846.5***	***298.7***	***547.8***	***846.5***
132.3	**286.6**	**418.9**	**154.3**	**308.6**	**462.9**	***220.5***	***330.7***	***551.2***	***220.5***	***330.7***	***551.2***
10.1	2.4	12.5	10.6	2.9	13.5	*14.3*	*23.1*	*37.4*	*14.3*	*23.1*	*37.4*
109.3	199.3	308.6	109.1	212.3	321.4	*156.1*	*284.0*	*440.1*	*173.9*	*300.0*	*473.9*
0	89.9	89.9	0	91.5	91.5	*0*	*103.6*	*103.6*	*0*	*103.6*	*103.6*
30.6	0	30.6	30.9	0	30.9	*30.9*	*61.9*	*92.8*	*34.8*	*61.9*	*96.7*
7.1	0	7.1	7.1	0	7.1	*7.3*	*0*	*7.3*	*7.3*	*0*	*7.3*
6.2	258.2	264.4	5.3	258.4	263.7	*8.8*	*285.7*	*294.5*	*8.8*	*285.7*	*294.5*
0	41.9	41.9	0	47.2	47.2	*0*	*52.2*	*52.2*	*0*	*68.3*	*68.3*
163.3	**591.7**	**755.0**	**163.0**	**612.3**	**775.3**	***217.4***	***810.5***	***1027.9***	***239.1***	***842.6***	***1081.7***
15.4	10.4	25.8	15.4	10.6	26.0	*15.4*	*11.9*	*27.3*	*15.4*	*11.9*	*27.3*
6.6	12.1	18.7	6.8	12.1	18.9	*7.7*	*14.3*	*22.0*	*7.7*	*14.3*	*22.0*
22.0	**22.5**	**44.5**	**22.2**	**22.7**	**44.9**	***23.1***	***26.2***	***49.3***	***23.1***	***26.2***	***49.3***
2065.8	**4193.5**	**6259.5**	**2040.2**	**4206.1**	**6246.3**	***2593.4***	***5169.6***	***7763.0***	***2637.1***	***5206.1***	***7843.2***

TABLE 5:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY

MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA	18	9	0	22	11	0	22	11	0
BELGIUM/NETHERLANDS	40	37	15	40	35	15	40	37	15
FRANCE	0	18	0	0	15	0	0	15	0
GERMANY, FED. REP[a]	86	44	0	88	46	0	88	53	0
ITALY[a]	20	4	40	24	4	40	22	4	40
SPAIN	7	9	7	+	9	7	+	9	7
UNITED KINGDOM	0	0	55	0	0	46	0	0	42
OTHER[b]	0	18	0	0	15	0	0	20	0
TOTAL WESTERN EUROPE	**171**	**139**	**117**	**174**	**135**	**108**	**172**	**149**	**104**
EASTERN EUROPE									
BULGARIA	0	9	0	0	9	0	0	9	0
CZECHOSLOVAKIA	18	26	0	18	26	0	18	29	0
GERMANY, DEM. REP.	29	49	0	29	49	0	31	49	0
POLAND	9	31	0	11	33	0	11	33	0
ROMANIA	11	7	0	11	7	0	11	9	0
USSR[a]	265	176	122	265	176	126	256	176	110
YUGOSLAVIA	15	15	0	15	15	0	18	15	0
TOTAL EASTERN EUROPE	**347**	**313**	**122**	**349**	**315**	**126**	**345**	**320**	**110**
U.S.A.[a]	**24**	**13**	**227**	**29**	**13**	**198**	**20**	**13**	**172**
OTHER AMERICAS									
ARGENTINA	0	0	4	0	0	4	0	0	4
BRAZIL	7	31	2	9	26	4	9	33	2
CANADA	0	0	23	0	0	22	0	0	18
CHILE	0	2	0	0	2	0	0	2	0
COLOMBIA	0	0	4	0	0	4	0	0	4
CUBA	4	+	0	4	0	0	4	0	0
MEXICO	7	4	13	4	7	13	7	7	15
PERU	0	0	2	0	0	4	0	0	4
URUGUAY	0	0	2	0	0	2	0	0	2
VENEZUELA	0	0	2	0	0	4	0	0	4
TOTAL OTHER AMERICAS	**18**	**37**	**52**	**17**	**35**	**57**	**20**	**42**	**53**
JAPAN[a]	**7**	**181**	**71**	**4**	**172**	**68**	**4**	**163**	**62**
CHINA, PRC	**0**	**66**	**0**	**0**	**99**	**0**	**0**	**110**	**0**
OTHER ASIA									
BANGLADESH	0	4	0	0	7	0	0	4	0
INDIA	22	77	2	18	73	2	15	88	+
KOREA, REP. OF	0	24	3	0	24	4	0	26	4
PAKISTAN	0	0	7	0	0	7	0	0	7
TAIWAN	0	7	0	0	4	0	0	4	0
TOTAL OTHER ASIA	**22**	**112**	**12**	**18**	**108**	**13**	**15**	**122**	**11**
OTHER M.E., A & O[c]	**0**	**22**	**0**	**0**	**22**	**0**	**0**	**22**	**0**
WORLD TOTAL	**589**	**883**	**601**	**591**	**899**	**570**	**576**	**941**	**512**

H High tenacity (tire & industrial type) viscose rayon yarn.
R Regular + intermediate tenacity viscose rayon yarn.
C Cuprammonium rayon yarn.
A Acetate + triacetate yarn.
a. Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn.
b. Comprises Greece, Portugal and Turkey.
c. Comprises Egypt and Iraq.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
157	**152**	**112**	**157**	**152**	**101**	***185***	***187***	***121***	***185***	***187***	***121***
0	9	0	0	9	0	*0*	*11*	*0*	*0*	*11*	*0*
18	29	0	18	29	0	*24*	*35*	*0*	*24*	*35*	*0*
31	49	0	31	49	0	*33*	*53*	*0*	*33*	*53*	*0*
11	29	0	11	31	0	*20*	*51*	*0*	*20*	*51*	*0*
11	9	0	11	9	0	*13*	*11*	*0*	*13*	*11*	*0*
256	176	110	258	176	110	*265*	*220*	*154*	*265*	*220*	*154*
18	18	0	13	15	0	*18*	*20*	*0*	*18*	*20*	*0*
345	**319**	**110**	**342**	**318**	**110**	***373***	***401***	***154***	***373***	***401***	***154***
15	**13**	**185**	**15**	**13**	**163**	***51***	***13***	***181***	***51***	***13***	***181***
0	0	7	0	0	7	*0*	*18*	*7*	*0*	*18*	*7*
2	33	0	0	33	0	*4*	*37*	*4*	*4*	*37*	*4*
0	0	20	0	0	20	*0*	*0*	*33*	*0*	*0*	*33*
0	2	0	0	2	0	*0*	*4*	*0*	*0*	*4*	*0*
0	0	4	0	0	4	*0*	*0*	*7*	*0*	*0*	*7*
7	0	0	7	0	0	*7*	*0*	*0*	*7*	*0*	*0*
4	7	15	4	7	15	*7*	*9*	*20*	*7*	*9*	*20*
0	0	4	0	0	4	*0*	*0*	*4*	*0*	*0*	*4*
0	0	2	0	0	2	*0*	*0*	*4*	*0*	*0*	*4*
0	0	4	0	0	4	*0*	*0*	*4*	*0*	*0*	*4*
13	**42**	**56**	**11**	**42**	**56**	***18***	***68***	***83***	***18***	***68***	***83***
4	**163**	**60**	**4**	**157**	**60**	***22***	***203***	***73***	***22***	***203***	***73***
0	**132**	**0**	**0**	**154**	**0**	***0***	***220***	***0***	***0***	***220***	***0***
0	11	0	0	11	0	*0*	*13*	*0*	*0*	*13*	*0*
13	97	+	11	99	+	*46*	*101*	*9*	*46*	*119*	*9*
0	26	4	0	26	4	*0*	*26*	*4*	*0*	*26*	*9*
0	0	7	0	0	7	*0*	*0*	*7*	*0*	*0*	*7*
0	7	0	0	4	0	*0*	*9*	*0*	*0*	*9*	*0*
13	**141**	**11**	**11**	**140**	**11**	***46***	***149***	***20***	***46***	***107***	***25***
0	**22**	**0**	**0**	**22**	**0**	***0***	***24***	***0***	***0***	***24***	***0***
547	**984**	**534**	**540**	**998**	**501**	***695***	***1265***	***632***	***695***	***1283***	***637***

TABLE 6:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
MILLION POUNDS

FIBER & AREA	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	0	1836	1836	2	1909	1911	2	2039	2041
EAST EUROPE	0	483	483	0	492	492	0	542	542
U.S.A.	0	671	671	0	671	671	0	631	631
OTHER AMERICAS	0	287	287	0	309	309	0	295	295
JAPAN	4	783	787	4	809	813	4	838	842
CHINA, PRC	0	150	150	0	152	152	0	161	161
OTHER ASIA	0	642	642	0	692	692	0	703	703
MIDDLE EAST, AFRICA & OCEANIA	0	42	42	0	26	26	0	35	35
TOTAL	**4**	**4894**	**4898**	**6**	**5060**	**5066**	**6**	**5244**	**5250**
NYLON+ARAMID [a]									
WEST EUROPE	1069	278	1347	1111	317	1428	1173	335	1508
EAST EUROPE	1102	183	1285	1162	187	1349	1188	205	1393
U.S.A.	1493	926	2419	1577	835	2412	1515	828	2343
OTHER AMERICAS	417	53	470	465	53	518	503	44	547
JAPAN	598	40	638	635	42	677	642	53	695
CHINA, PRC	97	0	97	126	2	128	154	2	156
OTHER ASIA	677	9	686	758	7	765	809	11	820
MIDDLE EAST, AFRICA & OCEANIA	101	4	105	112	4	116	123	4	127
TOTAL	**5554**	**1493**	**7047**	**5946**	**1447**	**7393**	**6107**	**1482**	**7589**
POLYESTER									
WEST EUROPE	852	997	1849	951	1069	2020	994	1087	2081
EAST EUROPE	357	762	1119	412	847	1259	457	921	1378
U.S.A.	1359	2184	3543	1200	2191	3391	1321	2020	3341
OTHER AMERICAS	446	415	861	497	488	985	498	489	987
JAPAN	684	704	1388	722	706	1428	725	713	1438
CHINA, PRC	40	428	468	77	707	784	121	977	1098
OTHER ASIA	1280	1467	2747	1537	1683	3220	1856	1891	3747
MIDDLE EAST, AFRICA & OCEANIA	93	133	226	103	160	263	121	162	283
TOTAL	**5111**	**7090**	**12201**	**5499**	**7851**	**13350**	**6093**	**8260**	**14353**
OTHER FIBERS EXCEPT OLEFIN [b]									
WEST EUROPE	13	20	33	13	20	33	13	20	33
EAST EUROPE	0	9	9	2	9	11	2	7	9
U.S.A.	+	+	+	+	+	+	+	+	+
OTHER AMERICAS	2	0	2	2	0	2	4	0	4
JAPAN	31	62	93	37	64	101	51	66	117
CHINA, PRC	15	121	136	15	154	169	22	176	198
OTHER ASIA	+	+	+	+	2	2	+	2	2
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	**61**	**212**	**273**	**69**	**249**	**318**	**92**	**271**	**363**
TOTAL FIBERS ABOVE									
WEST EUROPE	1934	3131	5065	2077	3315	5392	2182	3481	5663
EAST EUROPE	1459	1437	2896	1576	1535	3111	1647	1675	3322
U.S.A.	2852	3781	6633	2777	3697	6474	2836	3479	6315
OTHER AMERICAS	865	755	1620	964	850	1814	1005	828	1833
JAPAN	1317	1589	2906	1398	1621	3019	1422	1670	3092
CHINA, PRC	152	699	851	218	1015	1233	297	1316	1613
OTHER ASIA	1957	2118	4075	2295	2384	4679	2665	2607	5272
MIDDLE EAST, AFRICA & OCEANIA	194	179	373	215	190	405	244	201	445
WORLD TOTAL	**10730**	**13689**	**24419**	**11520**	**14607**	**26127**	**12298**	**15257**	**27555**

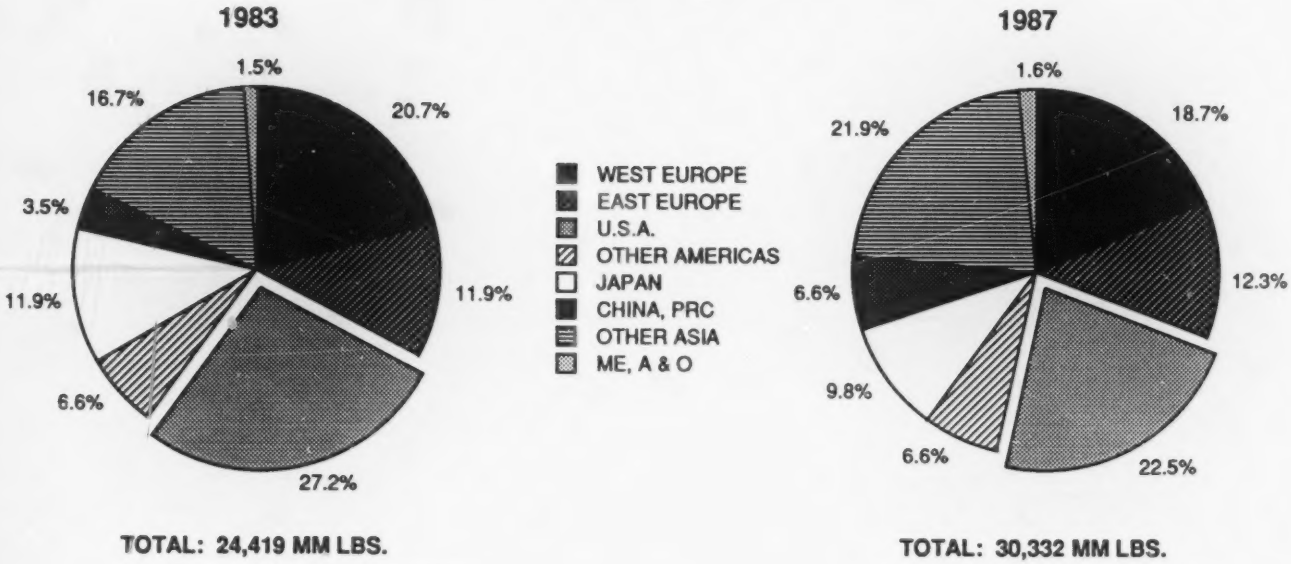
Y Yarn+monofilaments.
S Staple+tow+fiberfill.
+ Nominal quantities.
a. U.S.A. nylon producing capacity data do not include aramid.
b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon. U.S.A. production data do not include spandex.
c. Based on 1987 production and an average March 1987 and March 1988 producing capacity. Refer to July 1987 ***Textile Organon*** for March 1987 producing capacity.

The regional totals here are the same as those on pages 158 - 161.

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION [c]	
1986			1987			3/1988			12/1989				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
2	2059	2061	2	2077	2079	2	2346	2348	2	2346	2348	100.0	88.9
0	571	571	0	611	611	0	776	776	0	930	930	0	77.6
0	616	616	0	592	592	0	637	637	0	642	642	0	92.1
0	340	340	0	399	399	0	465	465	0	465	465	0	88.1
7	869	876	7	891	898	13	966	979	13	966	979	50.0	93.6
0	163	163	0	165	165	0	258	258	0	355	355	0	63.3
0	723	723	0	756	756	0	866	866	0	999	999	0	83.9
0	37	37	0	37	37	0	79	79	0	115	115	0	53.1
9	**5378**	**5387**	**9**	**5528**	**5537**	**15**	**6393**	**6408**	**15**	**6818**	**6833**	**57.1**	**86.3**
1140	309	1449	1140	317	1457	1459	430	1889	1499	430	1929	78.3	74.2
1213	207	1420	1248	209	1457	1429	265	1694	1506	265	1771	87.3	81.5
1605	908	2513	1697	992	2689	1844	1132	2976	1980	1168	3148	91.9	88.8
496	55	551	478	51	529	829	101	930	844	102	946	59.6	51.7
573	42	615	578	37	615	723	60	783	723	60	783	79.6	60.7
163	2	165	174	2	176	198	11	209	243	11	254	87.8	20.0
853	9	862	939	13	952	1254	26	1280	1340	40	1380	76.5	66.7
130	4	134	137	4	141	240	7	247	247	7	254	56.6	66.7
6173	**1536**	**7709**	**6391**	**1625**	**8016**	**7976**	**2032**	**10008**	**8382**	**2083**	**10465**	**80.6**	**81.4**
984	1105	2089	994	1122	2116	1289	1342	2631	1333	1298	2631	78.3	84.1
527	983	1510	579	1084	1663	742	1454	2196	742	1454	2196	75.8	74.7
1173	2133	3306	1179	2362	3541	1324	2544	3868	1346	2616	3962	87.7	94.5
509	503	1012	553	528	1081	718	687	1405	747	752	1499	75.3	78.1
710	683	1393	711	623	1334	1014	843	1857	1015	843	1858	72.0	76.6
272	1005	1277	397	1102	1499	444	1241	1685	522	1442	1964	89.6	82.4
2131	2234	4365	2423	2503	4926	2801	3027	5828	3669	3604	7273	85.4	83.4
112	176	288	116	181	297	194	289	483	193	339	532	59.6	67.8
6418	**8822**	**15240**	**6952**	**9505**	**16457**	**8526**	**11427**	**19953**	**9567**	**12348**	**21915**	**82.1**	**83.5**
11	20	31	11	20	31	18	26	44	18	26	44	62.5	75.0
2	7	9	2	7	9	2	18	20	2	18	20	100.0	37.5
+	+	+	+	+	+	30	+	30	30	+	30	0	0
4	0	4	4	0	4	4	0	4	4	0	4	100.0	0
44	60	104	46	62	108	66	218	284	66	218	284	59.2	27.7
22	139	161	22	144	166	33	165	198	33	165	198	66.7	86.7
0	2	2	0	4	4	2	0	2	2	0	2	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	**228**	**311**	**85**	**237**	**322**	**155**	**427**	**582**	**155**	**427**	**582**	**51.3**	**54.6**
2137	3493	5630	2147	3536	5683	2768	4144	6912	2852	4100	6952	78.2	85.7
1742	1768	3510	1829	1911	3740	2173	2513	4686	2250	2667	4917	83.4	76.1
2778	3657	6435	2876	3946	6822	3198	4313	7511	3356	4426	7782	89.3	92.7
1009	898	1907	1035	978	2013	1551	1253	2804	1595	1319	2914	67.2	79.7
1334	1654	2988	1342	1613	2955	1816	2087	3903	1817	2087	3904	74.4	78.7
457	1309	1766	593	1413	2006	675	1675	2350	798	1973	2771	87.9	79.6
2984	2968	5952	3362	3276	6638	4057	3919	7976	5011	4643	9654	82.7	83.5
242	217	459	253	222	475	434	375	809	440	461	901	57.9	64.7
12683	**15964**	**28647**	**13437**	**16895**	**30332**	**16672**	**20279**	**36951**	**18119**	**21676**	**39795**	**81.1**	**83.6**

GRAPH 2:
PERCENT SHARE OF WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

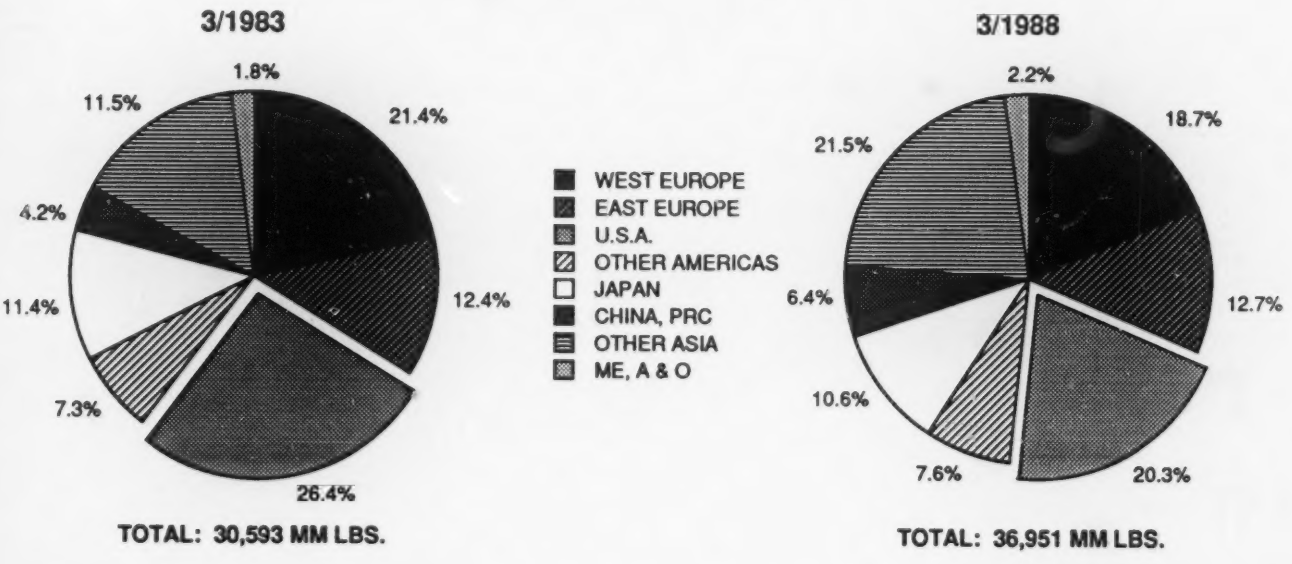
PRODUCTION



TOTAL: 24,419 MM LBS.

TOTAL: 30,332 MM LBS.

PRODUCING CAPACITY

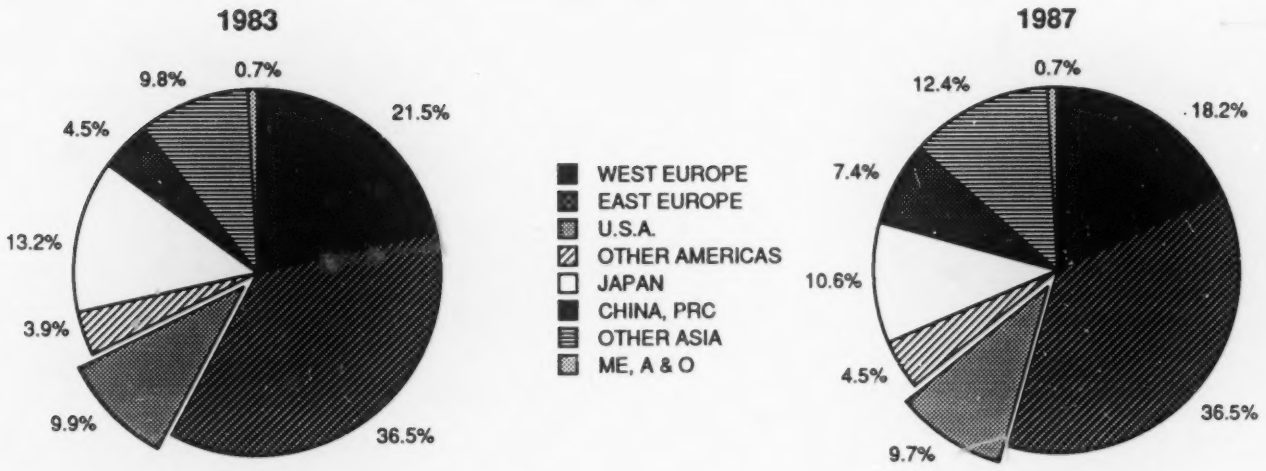


TOTAL: 30,593 MM LBS.

TOTAL: 36,951 MM LBS.

GRAPH 3:
PERCENT SHARE OF WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

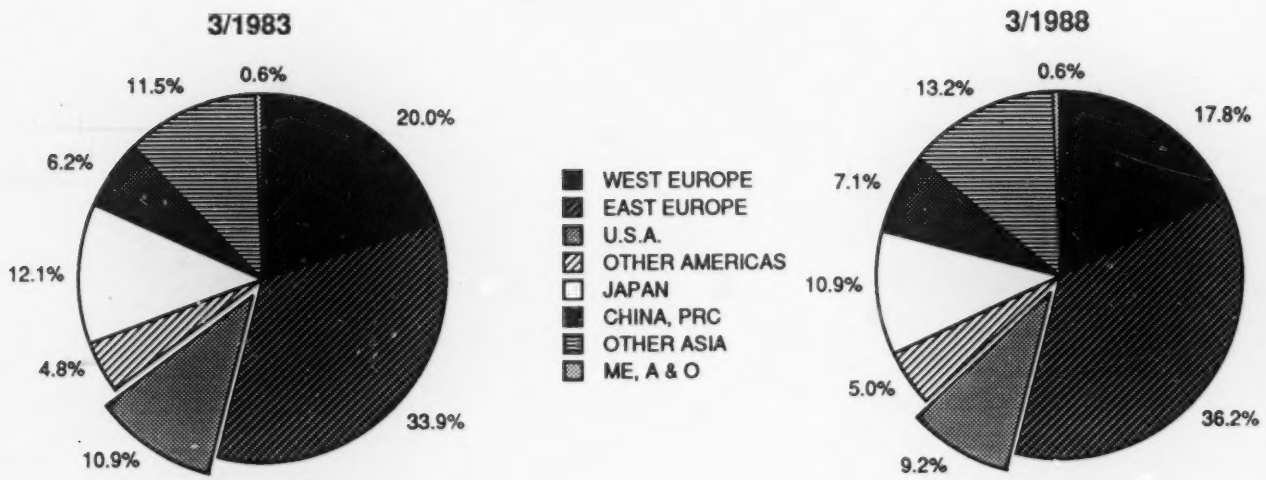
PRODUCTION



TOTAL: 6,458 MM LBS.

TOTAL: 6,246 MM LBS.

PRODUCING CAPACITY



TOTAL: 8,200 MM LBS.

TOTAL: 7,763 MM LBS.

TABLE 7:
WORLDWIDE GLASS FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

COUNTRY	PRODUCTION 1983	1984	1985	1986	1987	CAPACITY 3/88	12/89
WEST EUROPE	639	661	705	802	897	*915*	*992*
EAST EUROPE[a]						*220*	*220*
U.S.A.	1167	1394	1345	1389	1598	*1711*	*1748*
OTHER AMERICIAS	82	86	71	77	110	*154*	*165*
JAPAN	454	549	602	529	575	*694*	*728*
OTHER ASIA, AFRICA & OCEANIA[b]	31	31	62	66	77	*88*	*143*
TOTAL ABOVE	**2373**	**2721**	**2785**	**2863**	**3257**	*3782*	*3996*
CHINA, PRC	66	88	110	110	121	*209*	*220*
U.S.S.R.	143	165	187	220	243	*408*	*441*

Glass fiber is defined on page114 of the June 1988 ***Textile Organon***. The glass fiber producing capacity is based on March 1988 and December 1989 annual projections.

a. The data for East Europe do not include estimates for the U.S.S.R.
b. The Other Asia, Africa & Oceania countries are Australia, India and South Africa.

TABLE 8:
ESTIMATED WORLDWIDE CIGARETTE TOW PRODUCTION
MILLION POUNDS

AREA	1983	1984	1985	1986	1987
EUROPE[a]	176	176	183	229	236
U.S.A. OTHER AMERICAS[b]	465	412	463	476	545
ASIA[c]	95	104	97	93	101
WORLD TOTAL	**736**	**692**	**743**	**798**	**882**

a. Belgium, Germany, Fed. Rep., U.S.S.R. & United Kingdom.
b. Brazil, Canada, Colombia, Mexico & Venezuela.
c. Japan and Korea, Rep. of.

TABLE 9:
WORLDWIDE OLEFIN FIBER PRODUCTION
MILLION POUNDS

COUNTRY	1983	1984	1985	1986	1987
WEST EUROPE					
AUSTRIA	44	46	53	57	60
BENELUX	165	214	265	311	331
DENMARK	31	31	55	57	62
FINLAND	9	31	53	53	40
FRANCE	64	64	110	121	121
GREECE/CYPRUS	22	24	31	33	35
GERMANY, FED. REP.	134	179	249	258	276
IRELAND	20	20	20	20	22
ITALY	148	201	280	287	287
NORWAY	11	9	9	9	11
PORTUGAL	86	86	88	88	90
SPAIN	79	82	82	90	93
SWEDEN	9	9	13	13	13
SWITZERLAND	9	18	31	37	40
TURKEY	13	13	13	13	15
UNITED KINGDOM	176	176	209	243	256
TOTAL WEST EUROPE	**1020**	**1203**	**1561**	**1690**	**1752**
EAST EUROPE					
CZECHOSLOVAKIA	26	26	26	26	26
HUNGARY	35	35	37	37	37
POLAND	33	35	35	37	37
U.S.S.R.	40	44	49	53	53
U.S.A.					
YARN+MONOFIL	381	397	435	478	492
STAPLE	190	250	295	335	361
FILM FIBER	335	350	520	580	642
OTHER AMERICAS					
ARGENTINA	26	26	29	29	29
BRAZIL	79	86	86	88	88
CANADA	71	66	71	73	75
CHILE	2	2	2	2	2
EL SALVADOR GUATEMALA HONDURAS	7	7	7	7	7
MEXICO	57	57	57	60	60
NICARAGUA	2	2	2	2	2
PERU	13	13	13	15	15
URUGUAY	4	4	4	4	4
JAPAN					
YARN+MONOFIL	31	31	31	24	31
STAPLE	64	71	77	82	82
FILM FIBER	NA	NA	NA	NA	NA
OTHER ASIA					
KOREA, REP. OF	2	2	2	0	0
PHILIPPINES	7	7	7	7	7
TAIWAN	132	139	157	170	172
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	46	49	51	55	57
SOUTH AFRICA	11	11	11	11	11
OTHER	2	2	2	2	2

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example: although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.

Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

TABLE 10:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0								0	223
BRAZIL	54	0	28	55	28								165	197
CANADA	426	481	507	292	592								2298	1576
GERMANY, FED. REP.	353	635	281	227	388								1884	1927
JAPAN	277	131	45	121	62								636	303
MEXICO	62	53	18	81	70								284	158
NETHERLANDS	190	229	228	289	142								1078	434
ALL OTHER COUNTRIES [a]	11	1	21	67	44								144	6
TOTAL CELLULOSIC YARN	1373	1530	1128	1132	1326								6489	4824
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797	1355								4986	5364
ITALY	34	73	19	0	33								159	259
JAPAN	99	0	91	46	37								273	511
SWEDEN	0	41	45	0	20								106	180
UNITED KINGDOM	57	0	79	54	0								190	148
ALL OTHER COUNTRIES [b]	28	0	10	51	43								132	74
TOTAL CELLULOSIC STAPLE+TOW	1304	888	1218	948	1488								5846	6536
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172								5284	4557
CANADA	1448	1872	2220	2156	2451								10147	7886
CHINA, PRC	0	10	1	0	0								11	361
COSTA RICA	606	570	654	533	514								2877	3065
DENMARK	0	0	0	0	61								61	125
FRANCE	767	588	716	338	272								2681	2984
GERMANY, FED. REP.	1074	1355	1968	1078	1495								6970	10675
IRELAND	37	34	74	114	150								409	245
ISRAEL	388	309	123	304	182								1306	1055
ITALY	761	811	177	1678	942								4369	5554
JAPAN	648	212	729	277	282								2148	3418
KOREA, REP. OF	3	23	33	63	0								122	164
MEXICO	1428	2004	1547	978	1622								7579	9330
NETHERLANDS	49	42	26	31	57								205	588
SINGAPORE	81	41	44	19	34								219	204
SWITZERLAND	32	0	5	11	3								51	330
TAIWAN	12	26	12	53	69								172	196
UNITED KINGDOM	676	753	220	632	917								3198	3552
ALL OTHER COUNTRIES [c]	172	234	201	406	342								1355	604
TOTAL NONCELLULOSIC YARN	9618	10001	10415	9565	9565								49164	54893
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296								3697	424
BELGIUM	35	0	18	18	634								705	146
BRAZIL	0	0	0	499	0								499	1315
CANADA	2003	2183	2981	2221	2797								12185	13881
FRANCE	934	799	800	957	1257								4747	3180
GERMANY, FED. REP.	2738	3040	2503	2478	3319								14078	11368
IRELAND	80	123	162	325	406								1096	109
ISRAEL	8	0	0	56	0								64	384
ITALY	130	362	145	241	5								883	7477
JAPAN	1963	2057	1894	2166	1912								9992	9710
KOREA, REP. OF	1355	1516	1456	1580	1295								7202	4398
MALAYSIA	0	95	48	48	0								191	325
MEXICO	303	549	210	502	985								2549	7506
ROMANIA	448	0	86	664	230								1428	1624
SWITZERLAND	102	21	153	189	123								588	527
TAIWAN	1986	1109	1425	1112	1024								6656	9373
UNITED KINGDOM	1604	1503	2175	1920	1777								8979	6478
ALL OTHER COUNTRIES [d]	52	30	48	48	2591								2769	347
TOTAL NONCELLULOSIC STAPLE+TOW	14342	14114	14856	16345	18651								78308	78572

\+ Less than 1 thousand pounds.

a. Morocco 46, United Kingdom 39, Singapore 38, Korea, Rep. of 11, Italy 7, Taiwan 2, France 1.

b. France 61, Austria 41, Australia 25, Germany, Fed. Rep. 2, Mexico 2, Belgium 1.

c. Romania 392, Brazil 375, Spain 146, Chile 133, Sweden 102, Australia 69, Argentina 56, Norway 33, Turkey 30, Austria 15, Hong Kong 3, Vatican City 1, Egypt, Greece, India.

d. India 2575, Australia 93, Netherlands 40, Hong Kong 29, Ireland 16, Spain 7, China, PRC 5, Egypt 3, Portugal 1, Philippines.

TABLE 11:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0108 & .0206	0	+	0	64	18								82	270
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210								6056	4548
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1								2	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97								349	1
SUBTOTAL ABOVE		1373	1530	1128	1132	1326								6489	4824
STAPLE	309.4320 & .4325	1182	886	1107	934	1354								5465	6246
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14	134								381	290
SUBTOTAL ABOVE		1304	888	1218	948	1488								5846	6536
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0	0								+	7
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150								1263	688
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472								8167	13647
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327								5589	7328
- OTHER	310.0114 & .0214	2158	1830	2815	1920	1882								10605	8367
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249	1672								7244	10522
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657	1707								8882	8929
- OTHER	310.0170 & .0270[b]	782	1085	876	922	469								4114	2934
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454								1900	1435
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	432								1400	1043
SUBTOTAL ABOVE		9618	10001	10415	9565	9555								49164	54893
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707								8739	20467
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932	7498								27469	26916
- ACRYLIC	309.4366	1214	953	1179	1399	1647								6392	5615
- OLEFIN	309.4371	83	104	534	498	165								1384	256
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969								7702	4545
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284	4091								17254	12763
POLYESTER	309.3040 & .3340	441	215	65	421	305								1447	1730
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631								6961	5383
OTHER	309.3065 & .3365	106	33	159	24	638								960	897
SUBTOTAL ABOVE		14342	14114	14856	16345	18651								78308	78572
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391								11097	11041
- POLYESTER	309.6630	550	487	1073	637	470								3217	4767
- ACRYLIC	309.6645	0	0	21	110	0								131	132
- OTHER	309.6660	221	273	392	157	271								1314	2618
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33	0								113	0
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366								2518	1916
SUBTOTAL ABOVE		4387	3347	4056	3102	3498								18390	20474
TOTAL MAN-MADE ABOVE		31024	29880	31673	31092	34528								158197	165306
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0								+	+
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	110	184	216	276								1126	1839
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5	34	19								94	232
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305	289	338								1470	1423
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	23	94								411	622
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1155	2219								9174	17504
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956	1629								8783	8742
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714	585	661								3764	3609
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234								1673	2135
GLASS FIBER	309.2800 & .2900[k]	2526	2716	404	2483	2271								10400	8516
GRAND TOTAL ABOVE		39746	36972	37742	38363	42269								195092	209928

SOURCE: U.S. Census Bureau Report IM145X.
NES Not elsewhere specified.
+ Less than 1 thousand pounds.
* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.
a. Also includes 310.0610.
b. Also includes 310.0530, .0550, .0630 & .0650.
c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.
d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.
e. Also includes 310.1210.
f. Also includes 310.2110.
g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, 2130 & .2150.
h. Also includes 310.5005 & .5030.
i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.
j. Also includes 310.9320 & .9500.
k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 12:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61								127	285
OTHER [b]	310.0026	683	991	556	1220	1231								4681	2801
MONOFILAMENTS	309.0110	89	36	5	36	9								175	2
STRIPS	309.2210	0	23	0	0	10								33	57
SUBTOTAL ABOVE		799	1052	567	1287	1311								5016	2945
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682								8778	14056
STAPLE-ACETATE	309.4219	89	66	309	329	146								939	628
SUBTOTAL ABOVE		1108	1973	2011	1797	2828								9717	14684
WASTE, ADVANCED&NOT ADVANCED	309.7400	143	251	198	86	263								941	633
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209								20919	12498
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438								37900	32877
- OTHER	310.0029	786	1111	2189	1186	1068								6340	3561
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311								14230	12797
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706								10414	9193
- OTHER [d]	310.0034	207	225	265	284	135								1116	821
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118								9034	6480
- OLEFIN	310.0040	83	626	121	143	161								1134	233
- OTHER	310.0044	360	729	886	802	688								3465	2813
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523								3407	2714
POLYESTER	309.0140	1641	1789	2345	1784	1871								9430	3403
OTHER	309.0170	680	901	768	769	847								3965	3043
STRIPS	309.2220 & .2270	415	192	277	442	454								1780	2032
SUBTOTAL ABOVE		21080	26063	28149	23313	24529								123134	92465
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387								8062	9969
- POLYESTER	309.4242	13519	7586	10316	10132	11435								52988	80867
- ACRYLIC	309.4245	17224	11389	16118	7723	12187								64641	17600
- OLEFIN	309.4246	1488	1604	2696	2137	1784								9709	10209
- OTHER	309.4247	1228	1696	3193	1951	2312								10380	13770
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601								2599	1940
POLYESTER [d]	309.3240	2108	1330	2067	794	2046								8345	9397
ACRYLIC	309.3250 & .3255	4966	3683	3809	2267	3498								18223	9974
SUBTOTAL ABOVE		43649	29296	40428	26324	35250								174947	153726
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287								5863	5683
- POLYESTER	309.7630	3959	4435	6616	4231	4813								24054	23645
- ACRYLIC	309.7640	312	1219	923	676	970								4100	4853
- OTHER	309.7660	3765	3582	3138	3474	3605								17564	15474
SUBTOTAL ABOVE		8721	10446	11866	9873	10675								51581	49655
TOTAL MAN-MADE ABOVE		75500	69081	83219	62680	74856								365336	314108
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139								43352	34969
GRAND TOTAL ABOVE		84313	78433	92333	71614	81995								408688	349077

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes singles and plied yarn.

b. Includes rayon tire cord.

c. Includes noncellulosic tire cord.

d. Includes zero twist yarns.

TABLE 13:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1988	1987
MAN-MADE FIBER TOTAL SHIPMENTS[b,c]														
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5							105.3	93.7
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2							215.1	199.1
TOTAL CELLULOSIC	48.5	52.0	56.6	54.9	54.7	53.7							320.4	292.8
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4							189.8	189.6
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3							479.8	474.2
- TEXTILE[f]	30.0	31.2	34.5	31.7	31.7	32.4							191.5	190.3
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	31.3							178.5	166.2
- TEXTILE[f]	62.9	68.4	67.7	73.0	71.9	70.5							414.4	420.6
OLEFIN[e]	97.2	101.4	102.4	100.0	100.2	99.2							600.4	547.7
TOTAL YARN	316.7	343.1	354.7	348.9	345.9	345.1							2054.4	1988.6
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0	77.9	79.2							471.2	509.7
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4							295.1	302.7
POLYESTER	190.4	202.4	198.5	212.1	195.5	195.4							1194.3	1179.5
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.5							182.9	179.4
TOTAL STAPLE	346.0	366.5	368.0	358.3	350.2	354.5							2143.5	2171.3
TOTALNONCELLULOSIC	622.7	709.6	722.7	707.2	696.1	699.6							4197.9	4159.9
TOTAL MAN-MADE FIBER	711.2	761.6	779.3	762.1	750.8	753.3							4518.3	4452.7
MAN-MADE FIBER END OF MONTH STOCK														
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4							12.4	14.0
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4							13.4	25.1
TOTAL CELLULOSIC	35.8	35.8	33.5	32.0	29.3	25.8							25.8	39.1
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7							24.7	25.8
- CARPET	72.0	66.5	67.0	66.5	70.2	71.9							71.9	47.7
- TEXTILE[f]	51.8	50.1	47.1	47.2	48.7	47.8							47.8	46.8
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2							29.2	29.4
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9							82.9	85.7
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0							54.0	54.9
TOTAL YARN	317.1	308.0	299.4	298.0	308.8	310.5							310.5	290.3
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2							65.2	61.5
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9							67.9	78.2
POLYESTER	173.7	168.3	157.8	161.8	167.4	171.7							171.7	161.6
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.2							36.2	31.9
TOTAL STAPLE	332.0	325.5	305.7	319.9	329.4	341.0							341.0	333.2
TOTAL NONCELLULOSIC	649.1	633.5	605.1	617.9	637.6	651.5							651.5	623.5
TOTAL MAN-MADE FIBER	684.9	669.3	638.6	649.9	666.9	677.3							677.3	662.6
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5								61.5	69.1
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4								7.3	5.4
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9								68.8	74.5
RAW COTTON	300.0	311.4	339.3	278.0	305.2								1533.9	1535.7

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.